

# OAC10- Series      10 Watt AC/DC Power Supply



NO LOAD CONSUMPTION 0.1 W  
 Isolated output 3750VAC  
 Short Circuit protection  
 Encapsulated compact size 1" X1"  
 CE recognized  
 ITE & AC Motor Applications  
 2 year Warranty



|              |                           | UNIT |                                                                                          |  |
|--------------|---------------------------|------|------------------------------------------------------------------------------------------|--|
| <b>INPUT</b> | <b>Voltage/Freq</b>       | V    | Universal Input voltage AC 90V ~ 264V 47 ~ 63Hz                                          |  |
|              | <b>Current Typ. 110V</b>  | A    | 250 mA                                                                                   |  |
|              | <b>220V</b>               |      | 150 mA                                                                                   |  |
|              | <b>Start-up time 115V</b> | -    | 2s                                                                                       |  |
|              | <b>FUSE</b>               |      |                                                                                          |  |
|              | <b>EXTERNAL</b>           |      |                                                                                          |  |
|              | <b>Inrush Current</b>     | A    | 115V 20 ( Ta=25°C , Io=100% at cold Start ); 230V 40 ( Ta=25°C , Io=100% at cold Start ) |  |
|              | <b>Leakage</b>            | mA   | 264V=0.25                                                                                |  |

|               |                                 | UNIT  | OAC10-3.3           | OAC10-5             | OAC10-12            | OAC10-24            |
|---------------|---------------------------------|-------|---------------------|---------------------|---------------------|---------------------|
| <b>OUTPUT</b> | <b>Nominal Voltage</b>          | VDC   | 3.3                 | 5                   | 12                  | 24                  |
|               | <b>Efficiency typ</b>           | %     | 70                  | 76                  | 78                  | 80                  |
|               | <b>Current</b>                  | A     | 2.5                 | 2.0                 | 0.84                | 0.42                |
|               | <b>Capacitive Load max.</b>     | uF    | 18000uF             | 4800uF              | 2000uF              | 360uF               |
|               | <b>Line Regulation</b>          | mV    | +/-1.5              | +/-1.5              | +/-1.5              | +/-1.5              |
|               | <b>Load Regulation</b>          | mV    | +/-2                | +/-2                | +/-2                | +/-2                |
|               | <b>Ripple Noise maximum</b>     | mVp-p | 180                 | 150                 | 150                 | 180                 |
|               | <b>Hold up Time</b>             | mS    | 115V/60 Hz 8ms      |                     |                     |                     |
|               | <b>Over Load Protection</b>     |       | Auto Recovery       | Auto Recovery       | Auto Recovery       | Auto Recovery       |
|               | <b>Short Circuit Protection</b> |       | CONT. Auto Recovery | CONT. Auto Recovery | CONT. Auto Recovery | CONT. Auto Recovery |

|                  |                          |                                               |
|------------------|--------------------------|-----------------------------------------------|
| <b>Isolation</b> | <b>Isolation Voltage</b> | 1Min. Pri to Sec. cut-off current 5mA 3750VAC |
|------------------|--------------------------|-----------------------------------------------|

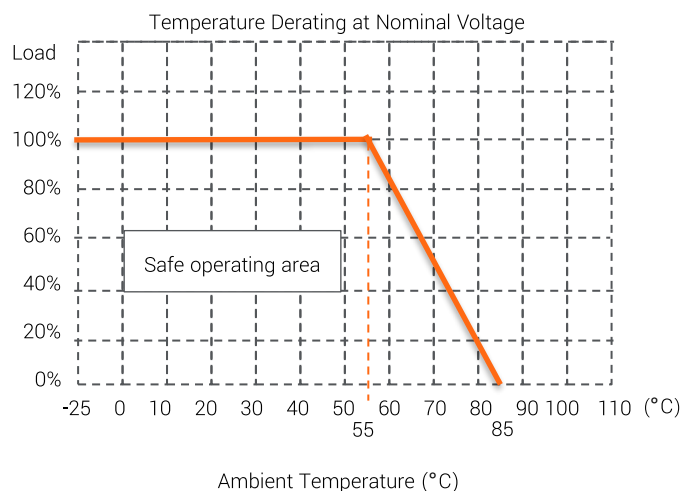
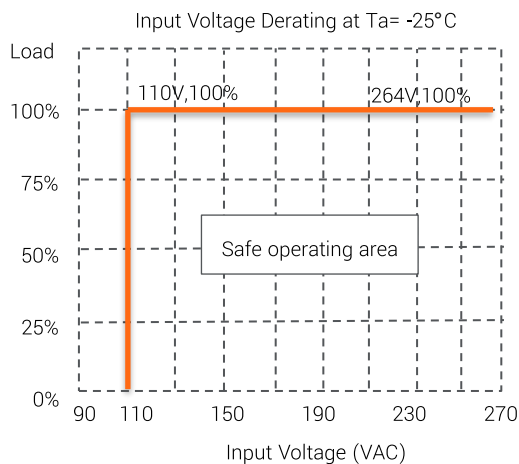
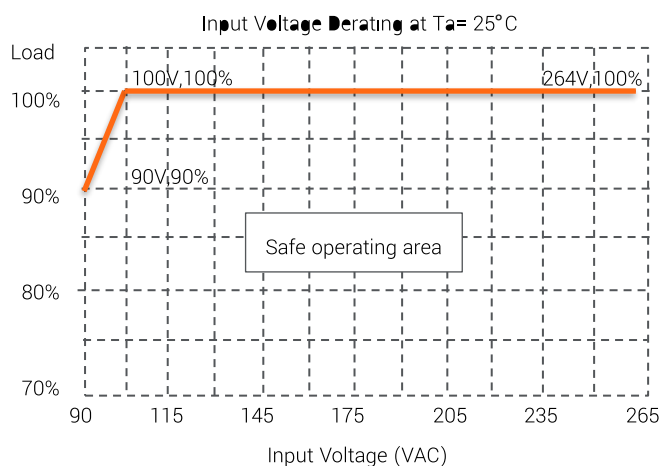


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|                    |                              |                                                               |                               |
|--------------------|------------------------------|---------------------------------------------------------------|-------------------------------|
| <b>Environment</b> | <b>Isolation Capacitance</b> | TYP. 1100 pF                                                  |                               |
|                    | <b>Isolation Resistance</b>  | DC 500V 1 minute GΩ (At room temperature & Humidity)          |                               |
|                    | <b>Operating temp/hum</b>    | -25 ~ +55℃                                                    |                               |
|                    | <b>Storage temp/hum</b>      | -25 ~ +85℃ HUMIDITY 95%                                       |                               |
|                    | <b>Vibration</b>             | MIL-STD-202G                                                  |                               |
| <b>Safety</b>      | <b>MTBF</b>                  | 115VAC@ 25C                                                   | 776K hrs; 230VAX@25C 606K hrs |
|                    | <b>CE</b>                    | IEC61000-4-2 ESD, IEC61000-4-4 EFT, IEC61000-4-5 SURGE CLASSA |                               |
|                    | <b>Line Emission</b>         | EN55032-B                                                     |                               |
| <b>Size</b>        | <b>MM/G</b>                  | 40X33.5X22                                                    | 42 grams                      |

## OUTPUT DERATING CURVE AND RECCOMENDED MOUNTING DIAGRAM



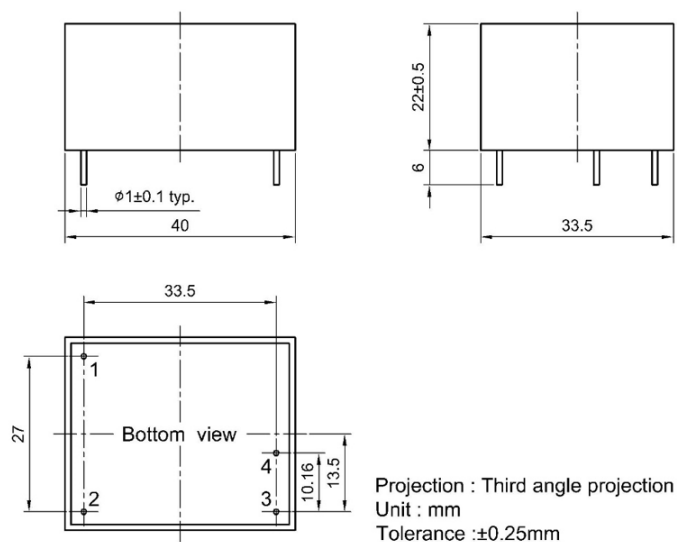
# ETA-USA

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Toll-free (US only): 800-ETA-POWR (800-382-7697) Telephone: 408 778-2793 FAX: 408-779-2753



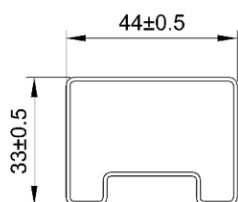
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## DIMENSIONAL DRAWING (mm)

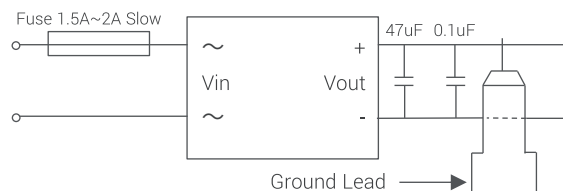


| Pin | Single |
|-----|--------|
| 1   | Vin(N) |
| 2   | Vin(L) |
| 3   | +Vout  |
| 4   | -Vout  |

## Package



## Ripple and Noise



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16170 Vineyard Blvd, Suite 180 Morgan Hill, CA 95037 <http://www.eta-usa.com>  
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# Mouser Electronics

Authorized Distributor

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